



Plugwise

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E2749

Be wise, plug in.

Welcome

Thank you for purchasing this Plugwise set, the system that monitors and controls your energy consumption. This user manual provides you with information about the installation, the use of the software, technical details and safety matters.

Contents

Check the content of your package for the following parts.
If something is missing, please contact us as soon as possible.



Installation list with software licence code



This manual

1. Installation

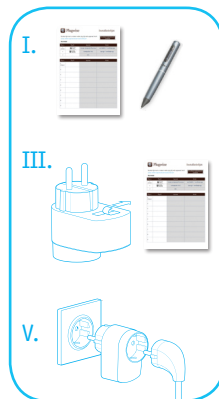
Circle+

- I. Pick up the Circle+ (recognizable by the grey back), the supplied installation list and a pen.
- II. Choose an appliance, located in the vicinity of the computer to be connected to the Circle+.
- III. Two stickers are attached to the back of the Circle+. Tear off one of the stickers and stick it on the reserved space on the installation list. Leave the other sticker on the Circle+.
- IV. Write on the installation list (next to the sticker) the name of the appliance connected to the Circle+ and the room or location of the Circle+.
- V. Insert the Circle+ in the socket and connect the appliance to the Circle+.

Circle(s)

- Repeat the same procedure, placing the next Circle, attaching the sticker to the list, until all of the Circles have been placed.
- Return to your computer when all of the Circles have been placed and the installation list has been completed.

Unfold this Installation Manual for continuation of the process.



continue installation

Install the software (Source)

- Go to the site www.myplugwise.com and follow the steps as they appear on the screen. Download the installation-file and execute the installation, the installation-wizard starts up.
- Follow the steps and press “complete”. The software will be installed automatically onto your computer

Stick

- Connect the Stick to your computer.

Configuration of the network

- After the installation of the software has been completed, the configuration-wizard starts up automatically. Make sure the Circle+ is connected to a power socket.
- Complete the steps ‘Welcome’ and ‘Licence’. You can find the Licence Code (25 characters) on the right top side of the installation list.
- If you cannot proceed after having filled in the Licence Code, please verify if you have used the correct code and your firewall is not blocking the internet access. Allow the Configuration Wizard full access in your firewall. If needed, cancel the installation and complete these steps again.
- The wizard will guide you through a number of screens to enter data in order to create a network. Proceed with all the steps of the wizard and click on ‘complete’. The system will be activated.
- At the end of the installation procedure, you will receive an e-mail. In order to activate the software, you have to use the activation link in the e-mail.
- Keep the installation list with the licence code in a safe place for future use.

When a Windows-message appears with the title: ‘unknown manufacturer’, click on *allow* to continue your installation.

During the configuration the Circles have to be connected to each other in order to exchange data. This ‘searching’ of the network takes some time. If the Circles are not displayed as ‘online’ in the software, you have to wait up to 10 minutes before you may continue.

When a Circle is placed too far from the others it cannot communicate with the network. To solve this you can place the Circle closer to the others or place another Circle in between the unreachable Circle and the others. Please make sure that the distance between the Circles is no more than 10 meters.

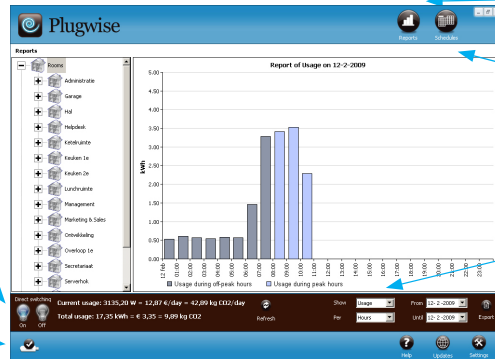
If a Circle is not found by the network during the configuration, you can add it manually in the software afterwards.

2. Software usage

- Your Plugwise system is now installed! By using the software you can now measure and switch your appliances. The PC can be switched off, because the Circles store the electricity consumption data in their internal memory. Analyse your electricity usage with the Source and save on your energy bill by sending switching schedules to the Circles. A software screen with instructions is shown below.

Direct Switching, the selected appliance or group is directly switched on/off

Stick, the Stick flashes when data are retrieved. Do not disconnect the Stick from your PC while using the Source. Only when the Source is not in use, you can disconnect the Stick.



Overviews, look at reports and graphs of your energy consumption, the costs and the CO₂-emission

Switching, program switching schedules in order to save

Usage data, preset the timeframe for use. The graph is empty until data have been received; only after one full hour the first data will appear

Help, extended information about the software usage in a PDF-manual

Settings, add Circles, create groups and rooms

3. Technical data

1. Circle

Parameters	Min.	Nominal/Type	Max.	Unit	Remarks
Power supply					
Supply voltage	220	230	240	VAC	
Frequency		50 / 60		Hz	
Power dissipation		0.5	0.8	W	Unloaded, depending on relay position and Zigbee communication
Energy measuring					
Cumulative accuracy		±5%, +0.5W / -2.5W			Ib = 1.5A, Imax = 16 A 230V ac, 50 Hz, 23°C Power range 1,035-3680W
Actual accuracy		±1%, ±0.2W			>1 hour cumulative data
Permanent memory					
Storage capacity		512		kByte	
Dimensions					
(l × w × h)		81.3 × 72 × 43.5		mm	
ZigBee communication					
Baudrate			250	kbps	0-QPSK
Frequency	2400		2483.5	MHz	16 channels of 2.4GHz ISM band
Bandwidth		2.0		MHz	5MHz channel spacing
Receiving sensitivity (signal to noise ratio)	-92	-97	-98	dBm	@ 1% PER 20-byte packet
Transmission power	-32	3	5	dBm	

2. Circle+

The technical specifications of the Circle presented in the table above are also valid for the Circle+. The Circle+ is equipped with extra memory, a battery and a real-time clock

Parameters	Min.	Nominal/Type	Max.	Unit	Remarks
Real time clock					
Operating time without power supply	6		20	days	

3. Stick

Parameters	Min.	Nominal/Type	Max.	Unit	Remarks
Power supply					
Supply voltage		5		Vdc	Powered by USB host
Dissipated power		0.375		W	
Connector					
Frequency	2400	USB (A)	2483.5	MHz	16 channels of the 2.4GHz ISM band

Usage- and storage temperatures for the Circle, Circle+ and the Stick

Environmental conditions		Min.	Max.
Operational	°C	0	60
Operational	% RH (non condensing)	0	95
Storage	°C	-20	70
Storage	% RH (non condensing)	0	95

4. Warranty

Consumer products

The general conditions of sale and delivery Plugwise B.V. – Consumer apply to the Plugwise consumer packages. These conditions can be found on the website (www.plugwise.com) or can be obtained from Plugwise, free of charge.

During a period of twelve (12) months after delivery, if the Plugwise System turns out to be faulty, the Plugwise System shall be repaired, replaced by Plugwise free of charge or, to the extent relevant, a missing part shall be delivered.

The obligations of Plugwise regarding the products are limited to the repair or replacement of the product, such to the judgment of Plugwise. Exchanged or replaced parts of products are property of Plugwise.

This guarantee is without prejudice to other statutory or legal rights or claims of the Buyer.

The Buyer must inform Plugwise about the defect to the Plugwise System as soon as possible.

- you must show (a copy of) the original receipt of purchase or other proof of payment;
- explicitly excluded from all guarantee are components of use with a limited lifecycle, subject to normal wear like batteries;
- Plugwise is not liable for incidental damage or consequential damage resulting from or in connection with the use or misuse/abuse of Plugwise products;
- Plugwise does not accept any liability for a defect or damage that has occurred during transport.

The Buyer cannot rely on the guarantee if:

- If the Products have been misused (they are used in another manner or for a different purpose intended);
- In case of any repairs, alterations and/or maintenance performed other than by a by Plugwise approved service centre or by Plugwise;
- If components are used, which are not suited for the Plugwise system;
- In case of external causes like lightening, water, fire etc.;
- If the Products have been exposed to careless behavior or have not been installed properly;
- The damages or defect are the result of willful conduct or gross negligence;
- If the date on the purchase invoice is no longer legible;
- If the product label with serial number has been removed;
- If the Buyer has not done the utmost to limit the damage by inter alia the immediate shutting down of equipment, the making of copies and back-ups of data of the Software.

The content of this document is distributed without any form of guarantee whatsoever. Unless required by applicable law, no guarantee is provided regarding the accuracy, reliability or content of this document, either explicitly or implicitly, including but not limited to implicit guarantees regarding to the sale-ability and the suitability for a specific goal.

Plugwise reserves the right to amend or rescind this document at all times without preceding notification.

5. Safety information

Save these instructions for future reference.

Electricity: safety

- Install and use the products only in the manner as described in the enclosed user-documentation to ensure safe usage.
- The maximal allowed current of a Circle is 16 A.
- Do not make use of the products in case they are damaged or malfunction.
- Connect to the modules only appliances provided with the CE-quality symbol.
- This symbol shows that the appliance complies with the Directions for Low voltage (72/23/EEG; electricity safety).
- Never connect electrical appliances to the modules if a Circle, the Circle+, the appliance or the cord shows any signs of damage.
- Do not let the products come into contact with water or any other liquid.
- Never open up the casing of the product. The products do not contain components which you can service or repair.

Interference with electronic equipment

The products comply with the norm IEC/EN 61058.

Environment

Old electrical and electronic appliances often contain valuable materials. Never discard the appliance with household waste but turn it in at your local depot for collection of electrical and electronic appliances.

Conformity with EU-rules

The products comply with the regulations of the Guideline for Radio-equipment and Peripheral Equipment (1999/5/EG).

Service

In case you have any questions after having read this manual, please look at the page of our website with Frequently Asked Questions:
www.plugwise.com/en/support/faq

When your question is still unanswered or whether a part is damaged, Please send an e-mail or call our servicenumber:

helpdesk@plugwise.com

0900-PLUGGED (€ 0,30 per minute + international charges)
+31(0)900-758 44 33 (€ 0,30 per minute + international charges)

www.plugwise.com